

# SECOND ANNUAL CONFERENCE ON CARBON SEQUESTRATION

## DEVELOPING & VALIDATING THE TECHNOLOGY BASE TO REDUCE CARBON INTENSITY

### 2-C BREAKTHROUGH CONCEPTS – MINERALIZATION AND BIOLOGICAL

**Chair: Heino Beckert (NETL)**

4:00 - 4:20 *Microwave Enhancement of Reaction Kinetics in Serpentine Dehydroxylation Reactions* - \*William B. White (Penn. State), Michael R. Silsbee, Joe Kearns

4:20 - 4:40 *Development of a CO<sub>2</sub> Sequestration Module by Integrating Mineral Activation and Aqueous Carbonation* - \*M. Mercedes Maroto-Valer (Penn State University), Daniel J. Fauth, Matthew E. Kuchta, Yinzhi Zhang, Yee Soong

4:40 - 5:00 *Investigations of the CO<sub>2</sub> Sequestration Reaction Mechanisms that Govern Serpentine Mineral Carbonation* - \*Michael J. McKelvy (Arizona State Univ.), Andrew V. G. Chizmeshya, Jason Diefenbacher, George Wolf, Hamdallah Bearat

5:00 - 5:20 *The Anaerobic Bioreactor Controlled Landfill Technology for Solid Waste Management and Greenhouse Gas Abatement* - \*Don C. Augenstein (Institute for Environmental Management), John R. Benemann, Ramin Yazdani

5:20 - 5:40 *The Controlled Eutrophication Process: Microalgae Biofixation of CO<sub>2</sub> for Biofuels Production and Fertilizer Recycling at the Salton Sea, California* - \*David E. Brune (Clemson), G. Schwartz, J. R. Benemann, M. J. Massingill, J. C. Van Olst, J. A. Carlberg

5:40 - 6:00 *Comparison of Marine Microalgae Culture Systems* - \*Joseph C. Weissman (Bellsouth), John R. Benemann

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